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1 Safety of datalog queries over infinite databases

Y. Sagiv, M. Y. Vardi
March   PODS '89: Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART
1989   symposium on Principles of database systems
Publisher: ACM

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A query is safe with respect to a set of constraints if for every database that satisfies
the constraints the query is guaranteed to yield a finite set of answers. We study
here the safety problem for Datalog programs with respect to ...

2 On the equivalence of recursive and nonrecursive datalog programs

Surajit Chaudhuri, Moshe Y. Vardi

July   PODS '92: Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART
1992   symposium on Principles of database systems

Publisher: ACM

Full text available: pdf(980.01 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 25,   Citation Count: 25

We study the problem of determining whether a given recursive Datalog program is equivalent to a given nonrecursive Datalog program. We prove triply exponential upper and lower time bounds.

3 The CORAL deductive system

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan, Praveen Seshadri

April   The VLDB Journal — The International Journal on Very Large Data
1994   Bases,   Volume 3 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(3.03 MB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 43,   Citation Count: 11

CORAL is a deductive system that supports a rich declarative language, and an interface to C++, which allows for a combination of declarative and imperative programming. A CORAL declarative program can be organized as a collection of interacting modules. ...

Keywords: deductive database, logic programming system, query language

4 An abstract machine for tabled execution of fixed-order stratified logic programs

Konstantinos Sagonas, Terrance Swift

May   ACM Transactions on Programming Languages and Systems (TOPLAS),
1998   Volume 20 Issue 3

Publisher: ACM

Full text available: pdf(602.38 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 31,   Citation Count: 8

SLG resolution uses tabling to evaluate nonfloundering normal logic pr ograms according to the well-founded semantics. The SLG-WAM, which forms the engine of the XSB system, can compute in-memory recursive queries an order of magnitude faster ...

Keywords: SLG, WAM, memoing, prolog, stratification theories, tabling

5 Deductive database languages: problems and solutions

Mengchi Liu
March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1
Publisher: ACM

Full text available: pdf(254.50 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 220, Citation Count: 8

Deductive databases result from the integration of relational database and logic programming techniques. However, significant problems remain inherent in this simple synthesis from the language point of view. In this paper, we discuss these problems ...

Keywords: complex object databases, deductive databases, inheritance, logic programming, nested relational databases, object-oriented databases

6 Parallelism in logic programs

Raghu Ramakrishnan
December 1989   POPL '90: Proceedings of the 17th ACM SIGPLAN-SIGACT symposium on Principles of programming languages
Publisher: ACM

Full text available: pdf(1.76 MB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 1

7 Integrity Constraints Checking In Deductive Databases

Antoni Olivé
September 1991   VLDB '91: Proceedings of the 17th International Conference on Very Large Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 7

8 Attribute agreement

Y. C. Tay
March   PODS '89: Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART
1989   symposium on Principles of database systems
Publisher: ACM

Full text available: 📄 pdf(683.13   Additional Information: full citation, references, index terms
KB)

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 13,   Citation Count: 0

9 Updating knowledge bases while maintaining their consistency

Ernest Teniente, Antoni Olivé
April   The VLDB Journal — The International Journal on Very Large Data
1995   Bases, Volume 4 Issue 2
Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(2.54   Additional Information: full citation, abstract, references, cited by
MB)

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 25,   Citation Count: 7

When updating a knowledge base, several problems may arise. One of the most
important problems is that of integrity constraints satisfaction. The classic approach
to this problem has been to develop methods for *checking* whether a given update ...

Keywords: integrity checking, integrity maintenance, view updating

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